

ABSTRACT

The present invention relates to proteins which have a role in controlling neuronal cell migration and cell death as well as to the DNA which encode those proteins. It is an object of the present invention to provide control of cell migration and/or cell death by providing a method for screening for promoters or inhibitors of proteins which affect the control of cell migration and/or cell death of neurons by interacting with an actin-binding protein, Filamin 1, through promoting the degradation of Filamin 1 or the DNA encoding Filamin 1. The cDNAs of S-FILIP, L-FILIP and h-FILIP cDNAs, which interact with Filamin 1, thereby negatively affecting cell migration and cell death by promoting the degradation of Filamin 1, were isolated and the full nucleotide and amino acid sequences thereof were determined.